

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits and within three (3) months of the mailing date of the foreign search report.

**RELEVANCE OF EACH DOCUMENT**

The foregoing documents came to Applicant's attention during a search of the corresponding European application. A copy of the European Search Report setting forth the portion of each reference considered relevant by the examiner is attached.

Documents A2, A3 and A6 were cited in an Information Disclosure Statement filed January 25, 2002. Therefore, no additional copies are being provided.

All of the documents are in English.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated,

Atty. Dkt. No. 017661-0181  
otherwise improper or informal or even entirely missing, the Commissioner is authorized  
to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date December 19, 2002

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Customer Number: 22428




22428

PATENT TRADEMARK OFFICE

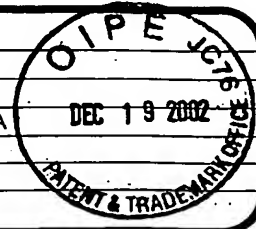
Telephone: (202) 672-5407  
Facsimile: (202) 672-5399

By Thomas G. Bilodan Reg. No. 43,438

 David A. Blumenthal  
Attorney for Applicant  
Registration No. 26,257

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: December 19, 2002 <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/048,059
				Filing Date	06/06/2002
				First Named Inventor	Takashi NAKAGAWA
				Group Art Unit	2681
				Examiner Name	Unknown
				Attorney Docket Number	017661-0181
Sheet	1	of	1		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	5,606,285	A	WANG et al.	02/25/1997	<b>RECEIVED</b>  <b>DEC 20 2002</b>
	A2	5,930,242	A	MIMURA	07/27/1999	
	A3	5,794,129	A	KOMATSU	08/11/1998	

Technology Center 2000

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A4	WO	97/09794	A1	QUALCOMM INCORPORATED	03/13/1997		
	A5	EP	0 751 630	A2	NEC CORPORATION	01/02/1997		
	A6	EP	0 887 947	A2	NEC CORPORATION	12/30/1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature	Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.